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2	INZZ	(hologram$1 OR holograph$2 OR switch$3) SAME substrate$1 WITH (light$1 OR signal$1) WITH (total OR internal) WITH reflect$3 SAME diffract$3	unrestricted	3	show titles

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- Classification codes A: Physics, 9
- Classification codes B: Electrical & Electronics, 0-5
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578	substrate$1 with (internal adj reflection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
382	substrate$1 with (total adj internal adj reflection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
19	substrate$1 with signal$1 with (total adj internal adj reflection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
27	substrate$1 with signal$1 with (internal adj reflection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
31	substrate$1 with signal$1 with (internal adj reflection$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
1263	substrate$1 with signal$1 with (reflection$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
56	substrate$1 with signal$1 with ((total or internal) adj reflection$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
21	(substrate$1 with signal$1 with ((total or internal) adj reflection$1)) and (substrate$1 with (top or above))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
1	322218	EPO
0	226647	EPO
3086	(385/14).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
1934	(385/15).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
2775	(385/16,17,18).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
4204	(385/37,129,130,131).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
312	(359/13).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
10965	((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
954	(((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (hologram or holograph$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

19	((((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (hologram or holograph$2)) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
64	(((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
11126	((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18,30,37).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
960	(((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18,30,37).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (hologram or holograph$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
19	((((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18,30,37).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (hologram or holograph$2)) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
19	((((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18,30,37).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (hologram or holograph$2)) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflect$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
66	(((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18,30,37).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflect$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
1	20020047129	US-PGPUB
1	("6212314").PN.	USPAT; USOCR
38	substrate$1 with signal$1 with (internal adj reflection$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
69	substrate$1 with signal$1 with ((total or internal) adj reflection$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
26	(substrate$1 with signal$1 with ((total or internal) adj reflection$1)) and (substrate$1 with (top or above))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
12161	((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
1099	(((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (hologram$1 or holograph$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
76	(((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflection$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

12333	((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18,30,37).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
12333	((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18,30,37).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
77	(((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18,30,37).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflection$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
26	((((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18,30,37).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (hologram$1 or holograph$2)) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflection$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
1	("4753513").PN.	USPAT; USOCR
1	("5561558").PN.	USPAT; USOCR
1	("6433911").PN.	USPAT; USOCR
3	US-4753513-$.DID. OR US-5561558-$.DID. OR US-6433911-$.DID.	USPAT
0	(("6433911").PN.) and (substrate with (quartz or sapphire))	USPAT
1	(("6433911").PN.) and (substrate)	USPAT
0	(("6433911").PN.) and (holograph$3)	USPAT
1	20020048423	US-PGPUB
1	20020048423 and holographic	US-PGPUB
1	(("6433911").PN.) and (diffract$3 with wavelength$1)	USPAT
0	(("6433911").PN.) and (diffract$3 with siz$3)	USPAT
0	(("6433911").PN.) and (diffract$3 with width$1)	USPAT
56	(optical adj switch) with holographic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
3	(optical adj switch) with diffractive with holographic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
25	((optical adj switch) with holographic) and @ad<="20000807"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
9	(optical adj switch) with diffract$3 with holographic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
0	((optical adj switch) with diffract$3 with holographic) and @ad<="20000807"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
1	("6433911").PN.	USPAT; USOCR
1	(("6433911").PN.) and (electrode$1)	USPAT
1	(("6433911").PN.) and (silicon$2)	USPAT
1	(("6433911").PN.) and (transparent)	USPAT
1	20020048423 and (grating adj period$1)	US-PGPUB
1	20020048423 and (cross adj connection$1)	US-PGPUB

0	(optical adj switch) with diffract$3 with bridge$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
1	(optical adj switch) and (diffract$3 with bridge$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
68	diffract$3 with bridge$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
5	(diffract$3 with bridge$1) and "359"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
1	("5311360").PN.	USPAT; USOCR
68	diffract$4 with bridge$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
3046	diffract$4 with connect$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
126	diffract$4 with cross$3 with connect$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
27	(diffract$4 with cross$3 with connect$4) and "359"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
177	diffract$4 with control$4 with individual$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
54	(diffract$4 with control$4 with individual$2) and "359"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
37	((diffract$4 with control$4 with individual$2) and "359"/$.ccls.) and @ad<="20000807"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
474	diffract$4 with group$1 with two	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
336	(diffract$4 with group$1 with two) and @ad<="20000807"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
72	((diffract$4 with group$1 with two) and @ad<="20000807") and "359"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
10942	diffract$4 with refract$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
2840	(diffract$4 with refract$3) and "359"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

1893	((diffract$4 with refract$3) and "359"/$.ccls.) and @ad<="20000807"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
197	diffract$4 with refract$3 with pair$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
42	(diffract$4 with refract$3 with pair$1) and "359"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
31	((diffract$4 with refract$3 with pair$1) and "359"/$.ccls.) and @ad<="20000807"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
0	diffract$4 and (jack adj dinh)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
337	diffract$4 and dinh	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
17	diffract$4 and (jack with dinh)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
1440	modulator$1 with bridg$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
28	(modulator$1 with bridg$3) and "359"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
20	((modulator$1 with bridg$3) and "359"/$.ccls.) and @ad<="20000807"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
1058	(359/290,291).CCLS.	US-PGPUB; USPAT; USOCR
465	((359/290,291).CCLS.) and @ad<="20000807"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
11	(((359/290,291).CCLS.) and @ad<="20000807") and (mov$3 with pair$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
1	(("6433911").PN.) and (thickness)	USPAT
1	(("6433911").PN.) and (thick$6)	USPAT
1	(("6433911").PN.) and (first with order$1)	USPAT
1	(("6433911").PN.) and (diffract$3 with order$1)	USPAT
1230	(359/290,291,295,222).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
3	((359/290,291,295,222).CCLS.) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflection$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

32	(((((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (hologram$1 or holograph$2)) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflection$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
32	(((((385/14).CCLS.) or ((385/15).CCLS.) or ((385/16,17,18,30,37).CCLS.) or ((385/37,129,130,131).CCLS.) or ((359/13).CCLS.)) and (hologram$1 or holograph$2)) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflection$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
6	(("4693544") or ("5331658") or ("6072925") or ("6501869") or ("6631222") or ("6810176")).PN.	USPAT; USOCR
2	20010048265	US-PGPUB; USPAT
1	20020159683	US-PGPUB; USPAT
1	20030012483	US-PGPUB; USPAT
16121	((385/14-18,30,37,129,131).CCLS.) or ((359/13,290,291,295,222,566,572).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
75	S102 and (hologram$1 or holograph$2 or switch$3) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflect$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
393	(hologram$1 or holograph$2 or switch$3) and (substrate$1 with (light$1 or signal$1) with ((total or internal) adj reflect$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
47	(hologram$1 or holograph$2 or switch$3) same (substrate$1 with (light$1 or signal$1) with ((total or internal) with reflect$3)) same diffract$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

US 4693544 A	USPAT	Optical branching device with internal waveguide	385/47
US 4753513 A	USPAT	Optical type head device	359/566
US 5331658 A	USPAT	Vertical cavity surface emitting laser and sensor	372/50
US 5561558 A	USPAT	Diffractive optical device	359/569
US 5995690 A	USPAT	Front light extraction film for light guiding systems and method of manufacture	385/25
US 6072925 A	USPAT	Optical integrated nodes, and optical communication systems and networks using the optical integrated nodes	385/24
US 6169614 B1	USPAT	Wedged-shape holographic collector	359/15
US 6185015 B1	USPAT	Compact planar optical correlator	359/15
US 6212314 B1	USPAT	Integrated opto-mechanical apparatus	385/30
US 6288829 B1	USPAT	Light modulation element, array-type light modulation element, and flat-panel display unit	359/291
US 6433911 B1	USPAT	Frustrated total internal reflection-based micro-opto-electro-mechanical modulator/demodulator	359/222
US 6501869 B1	USPAT	Optical switching system	385/18
US 6549694 B2	USPAT	Optical switching element, switching apparatus and image display apparatus using optical switching element	385/18
US 6631222 B1	USPAT	Reconfigurable optical switch	385/16
US 6643065 B1	USPAT	Variable spacing diffraction grating	359/573
US 6810176 B2	USPAT	Integrated transparent substrate and diffractive optical element	385/37
US 6843574 B2	USPAT	Gimbaled micromechanical rotation system	359/871
EP 322218 A2	EPO	Holographic planar optical interconnect.	
US 20020047129 A	DERWENT	Integrated optical device has diffractive optical element of transparent material, formed above top surface of substrate such that incident light signal is reflected off from substrate along desired direction of propagation	
US 20020048423 A	DERWENT	Optical switch uses optical gratings or holographic optical element that moves over substrate between coupling and decoupling positions to evanescent field	
US 20010048265 A1	US-PGPUB	Microelectromechanical apparatus for elevating and tilting a platform	310/309
US 20020047129 A1	US-PGPUB	Integrated transparent substrate and diffractive optical element	257/89
US 20020048423 A1	US-PGPUB	Optical switch with moveable holographic optical element	385/10
US 20020159683 A1	US-PGPUB	Mechanical optical switch and method for manufacturing the same	385/18
US 20030012483 A1	US-PGPUB	Microfluidic control for waveguide optical switches, variable attenuators, and other optical devices	385/16